

In the claims:

- 1-21. previously cancelled.
22. (previously added) A composition comprising a purified non-naturally-occurring DNA polymerase, or fragments thereof, capable of DNA synthetic activity, said polymerase derived from *Thermotoga neapolitana*.
23. (previously added) A composition comprising a mutant DNA polymerase, said mutant polymerase derived from a *Thermotoga neapolitana* DNA polymerase.
24. (previously added) The composition of Claim 23, wherein said mutant DNA polymerase comprises a mutation that reduces a 3'-5' exonuclease activity of said DNA polymerase.
25. (previously added) The composition of Claim 23, wherein said mutant DNA polymerase comprises a mutation that reduces a 5'-3' exonuclease activity of said DNA polymerase.
26. (previously added) The composition of Claim 23, wherein said mutant DNA polymerase comprises a mutation resulting in said DNA polymerase having reduced discrimination against dideoxynucleotides.
27. (previously added) The mutant DNA polymerase of Claim 23, wherein said mutant DNA polymerase comprises one or more amino acid substitutions.
28. (previously added) The mutant DNA polymerase of Claim 23, wherein said mutant DNA polymerase comprises one or more amino acid deletions.
29. (presently amended) The composition of Claim 23, wherein said mutant DNA polymerase is devoid of an N-terminal 5'-3' exonuclease domain.

30. (presently amended) The composition of Claim 23, wherein said mutant DNA polymerase is devoid of the 283 N-terminal amino acids of native *Thermotoga neapolitana* DNA polymerase.

31. (presently cancelled)

32. (presently cancelled)

33. (presently cancelled)

34. (presently cancelled)

35. (presently cancelled)

36. (presently cancelled)

37. (presently cancelled)

38. (presently cancelled)

39. (presently cancelled)

40. (previously added) A mutant *Thermotoga neapolitana* DNA polymerase having a mutation that substantially reduces or eliminates 3'-5' exonuclease activity of said polymerase, wherein said mutation is in the 3'-5' exonuclease domain of said polymerase, and further wherein said mutant *Thermotoga neapolitana* DNA polymerase is a Pol I-type DNA polymerase.

41. (previously added) An isolated DNA molecule comprising a DNA sequence encoding a mutant *Thermotoga neapolitana* DNA polymerase having a

mutation that substantially reduces or eliminates 3'-5' exonuclease activity of said polymerase, wherein said mutation is in the 3'-5' exonuclease domain of said polymerase, and further wherein said mutant *Thermotoga neapolitana* DNA polymerase is a Pol I-type DNA polymerase.

42. (presently cancelled)

43. (presently cancelled)

44. (previously added) A mutant *Thermotoga neapolitana* DNA polymerase having a mutation that substantially reduces or eliminates 5'-3' exonuclease activity of said polymerase, wherein said mutation is in the 5'-3' exonuclease domain of said polymerase, and further wherein said mutant *Thermotoga neapolitana* DNA polymerase is a Pol I-type DNA polymerase.

45. (presently cancelled)

46. (presently cancelled)

47. (presently cancelled)